Introduction to Robotics – Exercise 2

Date of submission – 24/11/21 (23:59)

The assignment

- Write a wander-bot as described in class.

- You should **explain your algorithm** and **report its success** in a PDF file
- Algorithm description - explain the idea and implementation in a several lines. You can add a pseudo code if it helps you explain (but you don't have to)
- Success report – the config file that provided to you was written such that by a simple change of the ***seed*** , the robot and the obstacles in the arena will appear in different places.
  Run your controller on seeds 1-5 and for each seed report:
  - whether you are satisfied from its performance or not
  - if you are not satisfied **(it's OK!)**, explain what is special about this domain? What did you not consider?
  - a screenshot of the simulation at the end of the task.
    Note that you decide when the task ends, but a shorter time is considered a better result.
    (The screenshot of the simulation must include the clock)

- Feel free to be inspired by articles, existing products (like the Romba) or even the behavior of different creatures (like animals) - just please add a reference.

Attached files

- A folder ex2 – the controller – you should fill in the setup and loop functions.
- An argos file – ex2.argos – the configuration file – you should NOT change it (except for the path to your controller .so)

Rules

- Make sure that your code is tidy and well-commented.
- Make sure that your names and IDs are listed at the beginning of every file
- Your names and IDs and any source you used should be written in a README

What to Hand In

- You should hand-in your controller folder and a report.pdf file as described above.
- You should not hand in executable files, or any other files that can be regenerated.

GOOD LUCK! :)